

CLAIMS

1. A network system comprising:

a transmitter device for transmitting real-time data containing contents data;

5 a transmission line for transmitting the real-time data transmitted from the transmitter device;

a bridge device for receiving the real-time data transmitted via the transmission line;

10 a wireless network for transmitting the data transmitted from the bridge device; and

a receiver device for receiving the data transmitted via the wireless network from the transmitter device,

wherein the bridge device includes

15 a transmission-line receiving unit for receiving the real-time data transmitted via the transmission line,

a reference time generator for generating a reference time independently from the transmitter device, and

20 a network transmitting unit for transmitting, via the wireless network, the reference time and the real-time data received by the transmission-line receiving unit, and

wherein the receiver device includes

a first network receiving unit for receiving the real-time data and the reference time transmitted via the wireless network from the bridge device,

25 a first internal time controller for generating an internal time based on the reference time received by the first network receiving unit, and

a real-time data processor for decoding the real-time data received by the first network receiving unit as to reproduce the contents data, and outputting the reproduced contents data based on the internal time generated by the internal time controller.

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2. The network system of claim 1, wherein the transmitter device includes

a second network receiving unit for receiving the reference time transmitted via the wireless network from the bridge device,

10 a second internal time controller for generating an internal time based on the reference time received by the second network receiving unit,

a transmission-line transmitting unit for transmitting the real-time data via the transmission line, and

a controller for generating the real-time data from original
15 real-time data and the internal time generated by the second internal time controller, the original real-time data containing the contents data.

3. A bridge device adapted to be used in a network system, the network system including

20 a transmitter device for transmitting real-time data containing contents data,

a transmission line for transmitting the real-time data transmitted from the transmitter device,

a wireless network, and

25 a receiver device for receiving data transmitted via the wireless network,

said bridge device comprising:

a transmission-line receiving unit for receiving the real-time data transmitted via the transmission line;

a reference time generator for generating a reference time independently from the transmitter device; and

5 a network transmitting unit for transmitting the reference time and the real-time data received by the transmission-line receiving unit via the wireless network.

4. A receiver device adapted to be used in a network system, the
10 network system including

a device for transmitting real-time data containing contents data and reference time, and

a wireless network for transmitting data transmitted from the device,

15 said receiver device comprising:

a network receiving unit for receiving the real-time data and the reference time transmitted via the wireless network from the device;

an internal time controller for generating an internal time based on the reference time received by the network receiving unit; and

20 a real-time data processor for decoding the real-time data received by the network receiving unit as to reproduce the contents data, and for outputting the reproduced contents data based on the internal time generated by the internal time controller.

25 5. A transmitter device adapted to be used in a network system, the network system including

a transmission line,

a device connected to the transmission line, the device generating a reference time, and

a wireless network for transmitting data transmitted from the device,

5 said transmitter device comprising:

a network receiving unit for receiving the reference time transmitted via the wireless network from the device;

an internal time controller for generating an internal time based on the reference time received by the network receiving unit;

10 a transmission-line transmitting unit for transmitting real-time data via the transmission line; and

a controller for generating the real-time data from original real-time data and the internal time generated by the internal time controller.

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6. A network system comprising:

a transmitter device for transmitting real-time data, the real-time data containing contents data and a first reference time;

20 a transmission line for transmitting the real-time data transmitted from the transmitter device;

a bridge device for receiving the real-time data transmitted via the transmission line;

a wireless network for transmitting data transmitted from the bridge device; and

25 a receiver device for receiving data transmitted via the wireless network,

wherein, the bridge device includes

a transmission-line receiving unit for receiving the real-time data transmitted via the transmission line,

a reference time generator for extracting the first reference time from the real-time data received by the transmission-line receiving unit, and for generating a second reference time from the first reference time, and

a network transmitting unit for transmitting, via the wireless network, the second reference time and the real-time data received by the transmission-line receiving unit, and

10 wherein, the receiver device includes

a network receiving unit for receiving the real-time data and the second reference time transmitted via the wireless network from the bridge device,

15 a first internal time controller for generating an internal time from the received second reference time, and

a real-time data processor for decoding the real-time data received by the network receiving unit as to reproduce the contents data, and outputting the reproduced contents data based on the internal time generated by the internal time controller.

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7. A bridge device adapted to be used in a network system which includes

a transmitter device for transmitting real-time data including contents data and a first reference time,

25 a transmission line for transmitting the real-time data transmitted from the transmitter device,

a wireless network, and

a receiver device for receiving data transmitted via the wireless network,

said bridge device comprising:

5 a transmission-line receiving unit for receiving the real-time data transmitted via the transmission line;

a reference time generator for extracting the first reference time from the real-time data received by the transmission-line receiving unit, and generating a second reference time from the first reference time; and

10 a network transmitting unit for transmitting, via the wireless network, the real-time data received by the transmission-line receiving unit and the second reference time.